



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
**DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHODS AND APPARATUS FOR OPERATING AND PERFORMING  
DIAGNOSTICS IN A CONTROL LOOP OF A CONTROL VALVE**

the specification of which was filed on April 21, 2004, as Application No. 10/828,706.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein.

I acknowledge the duty to disclose all information known to me that is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

**FOREIGN PRIORITY CLAIM**

I hereby claim foreign priority benefits under Title 35, United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

no such foreign applications have been filed  
 such foreign application have been filed as follows:

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing<br>(dd/mm/yyyy) | Priority Claimed<br>Under 35 USC 119 |
|--------------------|---------|--------------------------------|--------------------------------------|
|                    |         |                                | Yes No                               |
|                    |         |                                | Yes No                               |
|                    |         |                                | Yes No                               |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Application Number | Country | Date of Filing<br>(dd/mm/yyyy) |
|--------------------|---------|--------------------------------|
|                    |         |                                |
|                    |         |                                |
|                    |         |                                |

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code §119(e), of any United States provisional patent application(s) listed below:

no such U.S. provisional applications have been filed.  
 such U.S. provisional application have been filed as follows:

| Application Number | Date of Filing<br>(dd/mm/yyyy) | Priority Claimed<br>Under 35 USC 119 |
|--------------------|--------------------------------|--------------------------------------|
|                    |                                | Yes No                               |
|                    |                                | Yes No                               |
|                    |                                | Yes No                               |

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Federal

Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

no such U.S./PCT applications have been filed.

such U.S./PCT application have been filed as follows:

| Application Number | Date of Filing<br>(dd/mm/yyyy) |
|--------------------|--------------------------------|
| 10/644,207         | August 20, 2003                |
| 10/139,008         | May 3, 2003                    |
|                    |                                |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint:

All practitioners at Customer Number 45372

all of **MARSHALL, GERSTEIN & BORUN LLP**, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357, jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

Please mail all correspondence to Brent E. Matthias, whose address is:

**MARSHALL, GERSTEIN & BORUN LLP**  
233 S. Wacker Drive, Suite 6300  
Sears Tower  
Chicago, Illinois 60606-6357

Please direct telephone calls to: Brent E. Matthias at (312) 474-6300.

Please direct facsimiles to: (312) 474-0448

|   |                             |
|---|-----------------------------|
| Full name of sole or first inventor<br><b>Kenneth W. Junk</b>             |                             |
| Sole or first inventor's signature<br><i>Kenneth W. Junk</i>              | Date<br><i>19 July 2004</i> |
| Residence<br><b>Marshalltown, Iowa</b>                                    |                             |
| Citizenship <b>US</b>   |                             |
| Mailing Address<br><b>1402 Fairway Drive<br/>Marshalltown, Iowa 50158</b> |                             |

|   |                             |
|---|-----------------------------|
| Full name of second inventor, if any<br><b>Annette L. Latwesen</b>        |                             |
| Second inventor's signature<br><i>Annette L. Latwesen</i>                 | Date<br><i>15 July 2004</i> |
| Residence<br><b>Marshalltown, Iowa</b>                                    |                             |
| Citizenship <b>US</b>   |                             |
| Mailing Address<br><b>1402 Fairway Drive<br/>Marshalltown, Iowa 50158</b> |                             |

|                                     |      |
|-------------------------------------|------|
| Full name of third inventor, if any |      |
| Third inventor's signature          | Date |
| Residence                           |      |
| Citizenship                         |      |
| Mailing Address                     |      |

|                                      |      |
|--------------------------------------|------|
| Full name of fourth inventor, if any |      |
| Fourth inventor's signature          | Date |
| Residence                            |      |
| Citizenship                          |      |
| Mailing Address                      |      |